

**ABSTRACT**

An antenna coil is present in a hearing aid device to wirelessly transmit signals between a hearing aid device and a further device. Due to the required miniaturization of hearing aid devices, only minimal space is available for the arrangement of the antenna coil in the hearing aid device. The invention therefore provides for winding the antenna coil around or on an existing electro-acoustic transducer in the hearing aid device or around a capsule surrounding the transducer. A comparatively large antenna coil, for which little additional space is required, can thereby be provided in the hearing aid device.